

Title (en)  
ELECTROCERAMIC COATING OF A WIRE FOR USE IN A BUNDLED POWER TRANSMISSION CABLE

Title (de)  
ELEKTROKERAMISCHE BESCHICHTUNG EINES DRAHTES ZUR VERWENDUNG IN EINEM GEBÜNDELTEN STROMÜBERTRAGUNGSKABEL

Title (fr)  
REVÊTEMENT ÉLECTROCÉRAMIQUE D'UN FIL DESTINÉ À ÊTRE UTILISÉ DANS UN CÂBLE DE TRANSMISSION D'ÉNERGIE EN FAISCEAU

Publication  
**EP 3178096 A4 20180523 (EN)**

Application  
**EP 15830284 A 20150807**

Priority

- US 201462034358 P 20140807
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- US 2015044114 W 20150807

Abstract (en)  
[origin: WO2016022868A1] A cable for power distribution applications includes a plurality of wires bundled into the cable. The plurality of wires typically is comprised of interior wires and peripheral wires with the peripheral wires surrounding the interior wires. At least one wire is coated with a high emissivity coating that includes at least 10 weight percent aluminum oxide and a metal oxide other than aluminum oxide. Characteristically, the wire coated with the high emissivity coating has an emissivity greater than about 0.5 in the infrared region of the electromagnetic spectrum and a surface area at least 50 times greater than the surface area of a bare wire prior to being coated with the high emissivity coating.

IPC 8 full level  
**H01B 7/29** (2006.01); **C25D 9/12** (2006.01); **C25D 17/08** (2006.01); **H01B 1/02** (2006.01); **H01B 3/10** (2006.01); **H01B 5/00** (2006.01); **H01B 7/00** (2006.01); **H01B 7/02** (2006.01); **H01B 7/28** (2006.01); **H01B 7/42** (2006.01); **H01B 9/00** (2006.01); **H01B 13/08** (2006.01); **H01B 13/16** (2006.01); **H02K 3/02** (2006.01); **H02K 3/30** (2006.01)

CPC (source: EP US)  
**C25D 9/12** (2013.01 - EP US); **C25D 17/08** (2013.01 - US); **H01B 1/023** (2013.01 - EP US); **H01B 3/105** (2013.01 - EP US); **H01B 5/002** (2013.01 - EP US); **H01B 7/0045** (2013.01 - US); **H01B 7/02** (2013.01 - US); **H01B 7/28** (2013.01 - EP US); **H01B 7/292** (2013.01 - EP US); **H01B 7/421** (2013.01 - US); **H01B 9/006** (2013.01 - US); **H01B 13/0891** (2013.01 - US); **H01B 13/16** (2013.01 - US); **H02K 3/02** (2013.01 - US); **H02K 3/30** (2013.01 - US); **Y02A 30/14** (2017.12 - EP US)

Citation (search report)

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Designated contracting state (EPC)  
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